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U. S. DEPT. OF AGRICULTURE  
NATIONAL SOIL CONSERVATION SERVICE

FEB 15 1968

CURRENT SERIAL RECORDS

# **WATER SUPPLY OUTLOOK FOR ARIZONA**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,  
SALT RIVER VALLEY WATER USERS ASSOCIATION  
and  
ARIZONA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies  
named above in cooperation with the Federal, State and pri-  
vate organizations listed on the last page of this report.

AS OF  
**FEB. 1, 1968**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

### PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Box 38, Boise, Idaho 83707
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 Federal Office Building, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82602

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR ARIZONA**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

**D.A. WILLIAMS**  
ADMINISTRATOR  
SOIL CONSERVATION SERVICE  
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////////////////////////////////////  
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SALT RIVER VALLEY WATER  
USERS ASSOCIATION

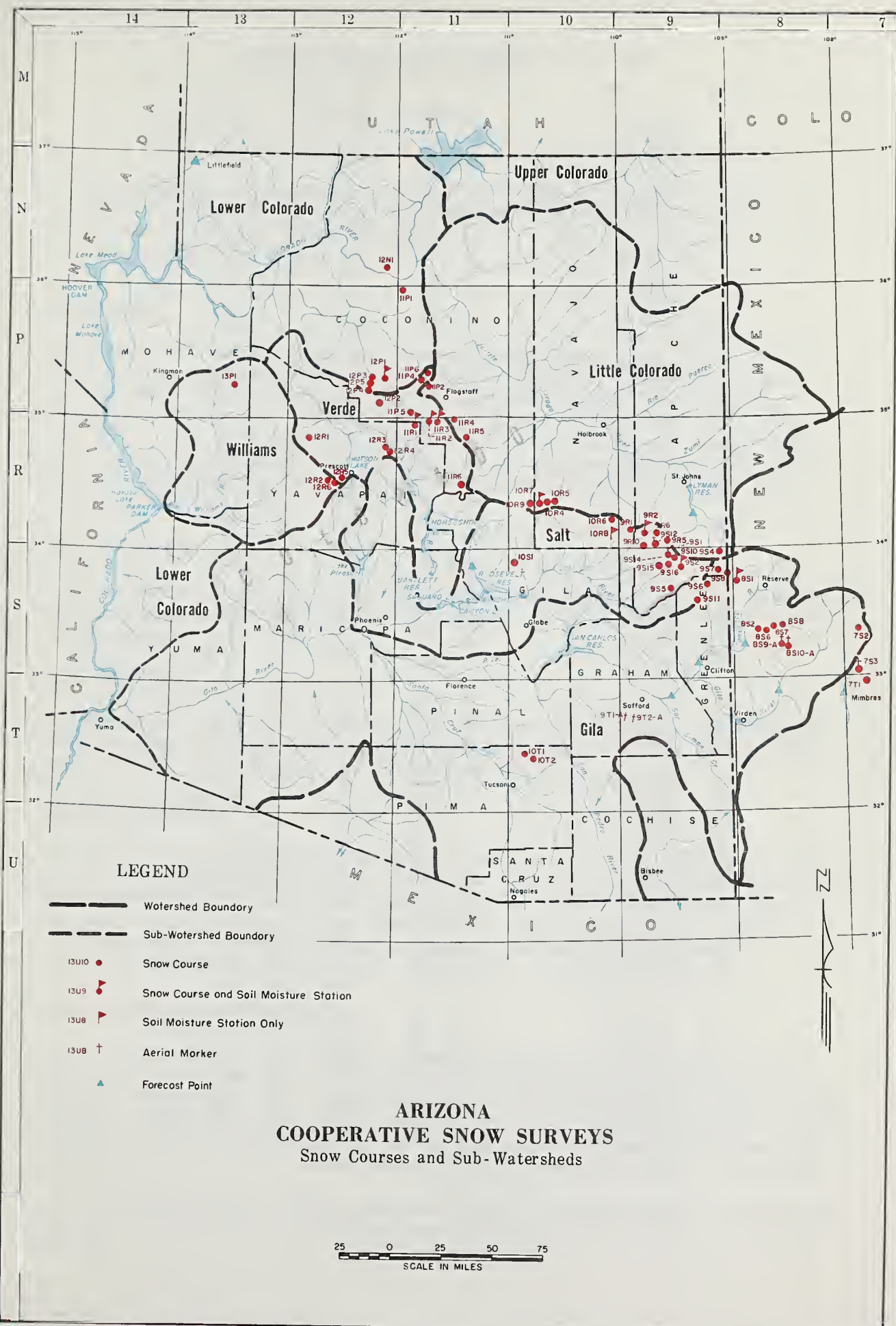
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*Report prepared by*

**RICHARD W. ENZ, Snow Survey Supervisor**

SOIL CONSERVATION SERVICE  
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ARIZONA  
COOPERATIVE SNOW SURVEYS  
Snow Courses and Sub-Watersheds

# INDEX to SNOW COURSES and SOIL MOISTURE STATIONS

Number	Name	Sec	Twp	Rge	Elevation	River Basin
11R6	Baker Butte (p)	4	12N	9E	7300	Verde
9S1	Baldy (p)	28	7N	27E	9125	Little Colorado
9S15	Baldy #2	12	6N	26E	10000	Little Colorado
9S16	Baldy #3	13	6N	26E	11000	Little Colorado
10T1	Bear Wallow	6	12S	16E	8100	Gila
12P5	Bill Williams Intermediate	17	21N	2E	8550	Lower Colorado
12P4	Bill Williams Summit	17	21N	2E	8950	Lower Colorado
9S6	Beaver Head	13	4N	30E	8000	San Francisco
9S10-*	Black River Divide	10	6N	27E	9400	Salt
12N1	Bright Angel	34	33N	3E	8400	Lower Colorado
12R1	Camp Wood	3	16N	6W	5700	Verde
10R7-M	Canyon Creek #2	18	11N	15E	7500	Little Colorado
10R9	Canyon Point (p)	28	11N	14E	7600	Salt
11R2-M	Casner Park	19	18N	8E	6930	Verde
12P1-M	Chalender	27	22N	3E	7100	Verde
12R6	Copper Basin Divide (p)	23	13N	3W	6720	Verde
10R8-*	Corduroy Creek	4	8N	21E	6000	Salt
9S7	Coronado Trail	26	5N	30E	8000	San Francisco
9T2-A	Crazy Horse	34	8S	24E	10200	Gila
7T1	Emory Pass #1	16	16S	9W**	7800	Mimbres
7T2	Emory Pass #2	16	16S	9W**	7800	Mimbres
10R6	Forest Dale	2	9N	21E	6430	Salt
11P2	Fort Valley (p)	22	22N	6E	7350	Little Colorado
9R5	Ft. Apache	18	7N	27E	9160	Little Colorado
8S1-M	Frisco Divide	31	6S	20W**	8000	San Francisco
12R4	Gaddes Canyon	11	15N	2E	7600	Verde
10R5	Gentry	36	11N	15E	7650	Salt
11P1	Grand Canyon	21	30N	4E	7500	Lower Colorado
9S11	Hannagan Meadows (p)	19	3N	29E	9090	Salt
11R5	Happy Jack	30	17N	9E	7630	Verde
9R10	Hawley Lake	13	7N	24E	8300	Salt
10R4	Heber (p)	28	11N	15E	7600	Little Colorado
9T1-A	High Peak	34	8S	24E	10500	Gila
8S9-A	Hummingbird	19	11S	17W**	10550	San Francisco
8S6	Ice King	6	11S	18W**	8020	San Francisco
7S2	Inman	6	11S	10W**	7800	Gila
12R2	Iron Springs	22	14N	3W	6200	Bill Williams
9S2	Maverick Fork (p)	13	6N	27E	9150	Salt
7S3-A	McKnight Cabin	10	15S	10W**	9300	Mimbres
9R2-M	McNary	23	8N	23E	7200	Salt
9R1	Milk Ranch	33	8N	23E	7000	Salt
12R3	Mingus Mountain	3	15N	2E	7100	Verde
8S2	Mogollon	2	11S	19W**	7000	San Francisco
11R4	Mormon Lake	13	18N	8E	7350	Little Colorado
11R3-M	Mormon Mountain (p)	14	18N	8E	7500	Verde
9S12-A	Mt. Ord	4	6N	26E	11000	Salt
11R1-M	Munds Park	15	18N	7E	6500	Verde
11P5-M	Newman Park	25	19N	6E	6750	Verde
9S4	Nutriso	23	6N	30E	8500	San Francisco
9S5	Pacheta	27	4-1/2N	27E	7800	Salt
8S7	Redstone Trail	5	11S	18W**	8600	San Francisco
10T2	Rose Canyon	15	12S	16E	7300	Gila
8S8	Silver Creek Divide	4	11S	18W**	9000	San Francisco
9S14-A	Smith Cienega	10	6N	26E	9850	Salt
11P4	Snow Bowl #1 (p)	36	23N	6E	10260	Verde
11P6	Snow Bowl #2	31	23N	7E	11000	Verde
9S8	State Line	6	6S	21W**	8000	San Francisco
12R5	White Spar	19	13N	2W	6000	Verde
12P2	White Horse Lake Jct	2	20N	2E	7150	Verde
8S10-A	Whitewater	19	11S	17W**	10750	Gila
12P3	Williams Ski Run	9	21N	2E	7720	Lower Colorado
13P1	Willow Ranch	16	21N	11W	5000	Bill Williams
9R6	Wilson Lake (p)	4	7N	26E	9000	Salt
10S1	Workman Creek	33	6N	14E	6900	Salt

M SOIL MOISTURE STA.

(p) STORAGE GAGE

A AERIAL SNOW DEPTH MARKER

\* SOIL MOISTURE STA. ONLY

\*\* NM PRINCIPAL MERIDIAN



# ARIZONA WATER SUPPLY OUTLOOK

FEBRUARY 1, 1968

\*\*\*\*\*  
\* An excellent water supply is in prospect for Arizona this year. \*  
\* Snow cover is almost three times average and streamflow is ex- \*  
\* pected to be over twice average. \*  
\*\*\*\*\*

## SNOW COVER

Most areas of Arizona have the heaviest snow cover since 1949. All-time records were exceeded at Mt. Lemmon, McNary, Coronado Trail and on the Upper Gila Watershed. The higher elevations of the White Mountains and the San Francisco Peaks, however, had more snow in 1962 and 1966. The bulk of the present snow pack is due to the heavy week-long storm that occurred in December. January snowfall has been below average almost everywhere, but cold temperatures have prevented significant melting below 7,000'.

## PRECIPITATION

Precipitation since the big storm has been below normal at most stations. Only along the Mogollon Rim from Happy Jack to Heber was precipitation above normal.

## SOIL MOISTURE

Soil moisture is good, especially at the lower elevations. Some higher stations are still several inches below field capacity, as it has been too cold for snow to melt and infiltrate the soil.

## RESERVOIR STORAGE

Central Arizona reservoirs presently contain two to six times the normal amount in storage, but this is not as much as two years ago at this time. Salt River Project Reservoirs contain 81% of capacity. Lake Pleasant is nearly full and San Carlos Reservoir is about one-third of capacity. All these will receive substantial amounts of additional water. Northern Arizona reservoirs are expected to spill over this year.

## STREAMFLOW AND WATER SUPPLY

Moderately high runoff continued during January, increasing after the storm activity near the end of the month. The Salt River Project System caught 239,000 acre-feet during January, and the Gila River above Safford flowed 101,000 acre-feet. The combined flow of the Salt and Verde Rivers, and Tonto Creek is forecast to be 920,000 acre-feet and the forecast for the Gila River is 252,000 acre-feet for the February through May period.

Water supplies will be abundant in all areas obtaining water from surface runoff. Some projects will have carry-over storage available for future seasons.



# STREAMFLOW FORECASTS - FEBRUARY 1, 1968

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts.

SUB-WATERSHED, STREAM and STATION	SEASONAL STREAMFLOW IN THOUSANDS OF ACRE FEET					
	FORECAST PERIOD: JANUARY - MAY, INCLUSIVE					
	Forecast Runoff 1968	Percent 15-Year Average	Measured Runoff			1948-62 Average
			1967	1966	1965	
Salt River near Roosevelt	640	201	72.2	554.5	588.8	319.1
Tonto Creek near Roosevelt	118	232	7.5	39.7	129.3	50.9
Verde River above Horseshoe	401	216	73.4	220.9	513.9	185.8
Gila River near Gila	122	221	17.3	120.9	47.0	55.1
Gila River near Virden	165	243	18.3	163.5	52.6	67.8
Gila River near Solomon	353	261	29.7	351.3	109.2	135.3
Granite Creek	8	---	---	---	---	---
Frisco River at Clifton	175	255	14.9	165.5	59.0	68.7
Frisco River near Glenwood	67	252	5.5	74.3	24.2	26.6
Mimbres River near Mimbres	7	184	1.1	10.9	1.3	3.8
Little Colorado River above Lyman Dam (JAN.-JUNE, Incl.)	22	224	1.6	23.1	21.0	9.8
Colorado River--Lake Powell * Inflow (APRIL-JULY, Incl.)	7500	98	---	4600.0	11810.0	7692.0
Virgin River near Virgin * (APRIL-JUNE, Incl.)	54	126	---	39.0	63.4	43.0
Virgin River near Littlefield (APRIL-JUNE, Incl.)	55	128	39.0	26.6	63.5	43.0
Willow Creek	3	---	---	---	---	---

\* Forecast issued by Soil Conservation Service, Salt Lake City, Utah.



STATUS OF ARIZONA RESERVOIR STORAGE - ABOUT FEBRUARY 1, 1968

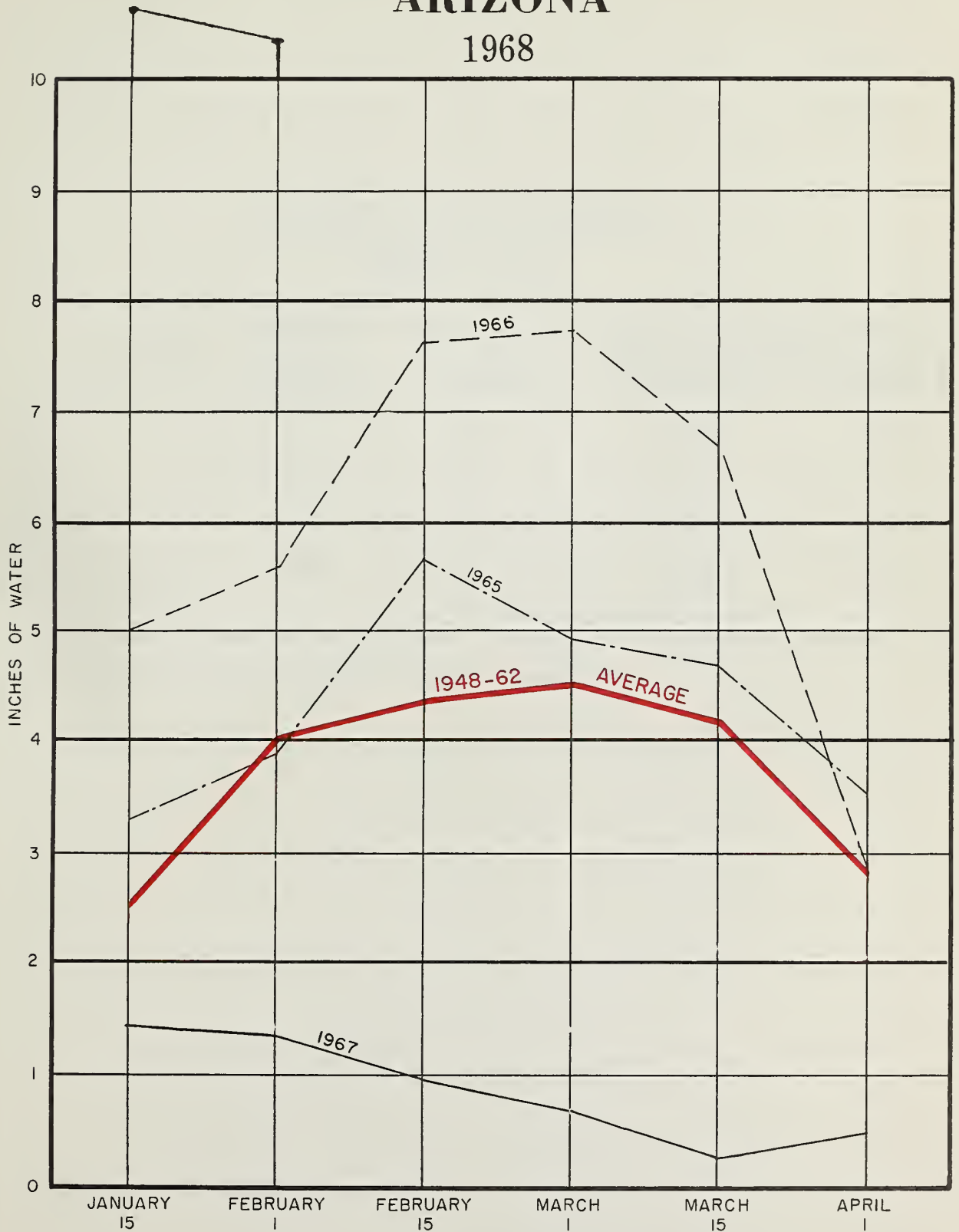
SUB- WATERSHED and/or STREAM	RESERVOIR	USABLE	USABLE STORAGE - 1000s ACRE FEET			
		CAPACITY 1000's ACRE FEET	1968	1967	1966	15-Year Average 1948-62
GILA RIVER DRAINAGE						
Agua Fria	Lake Pleasant	157.6	154.6	126.6	157.2	29.4
Granite	Watson Lake	4.7	4.5	3.2	4.5	---
Granite	Willow Creek	6.1	3.8	3.9	6.1	---
Gila	San Carlos	1,206.0	380.9	321.7	374.3	65.0
Verde	Bartlett	179.5	101.9	137.1	158.4	66.0
Verde	Horseshoe	142.8	34.6	68.4	111.3	16.6
Salt	Roosevelt	1,382.0	1,190.5	1,143.0	1,240.2	416.1
Salt	Apache	245.0	239.4	229.7	240.0	194.7
Salt	Canyon	58.0	52.0	35.9	52.3	45.1
Salt	Saguaro	70.0	67.6	60.8	58.0	45.9
COLORADO RIVER DRAINAGE						
Colorado	Lake Havasu	619.4	547.2	547.6	540.7	541.4
Colorado	Lake Mohave	1,810.0	1,691.1	1,639.0	1,768.0	1,522.3*
Colorado	Lake Mead	27,207.0	14,566.0	15,629.0	15,508.0	17,424.7
Colorado	Lake Powell	25,002.0	8,137.0	7,660.4	8,804.1	---
Little Colorado	Lyman	30.6	18.3	17.2	19.9	6.9
Little Colorado	Show Low Lake	5.1	0.6	0.7	5.1	0.8*

\* Average is for less than 15 years of record in the 1948-62 period.





# RELATIVE SNOW WATER ACCUMULATION ARIZONA 1968



*This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.*



SNOW COVER ON ARIZONA WATERSHEDS

FEBRUARY 1, 1968

Watershed	No. of Courses Average	Water Content of Snow (Inches)	This Year's Water Content of Snow Expressed as Percent of:	
			Last Year	Average *
Gila	7	8.2	1,148%	392%
Salt	10	12.0	907%	270%
Verde	7	10.1	772%	267%
Little Colorado	4	10.3	826%	223%

\* Actual or Estimated 1948-62, 15-year Average.

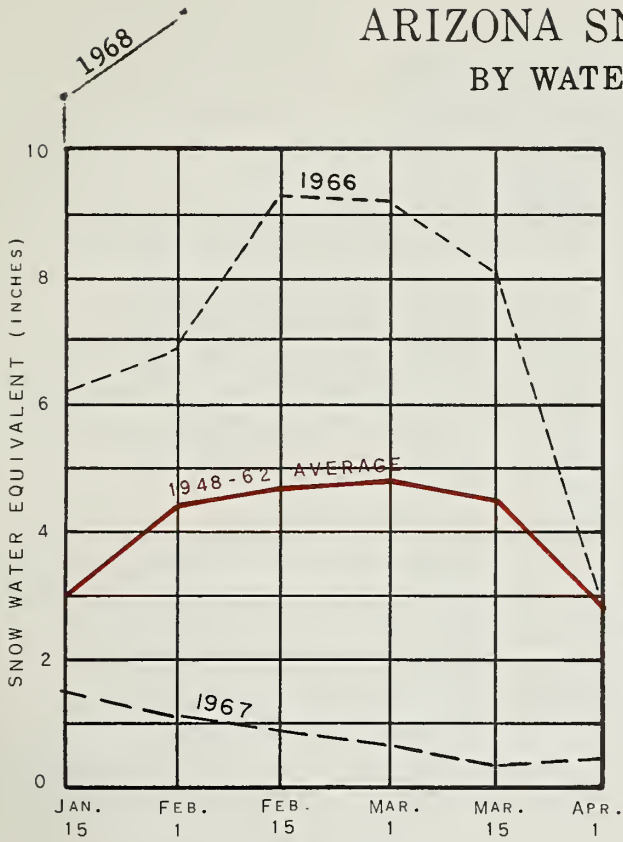




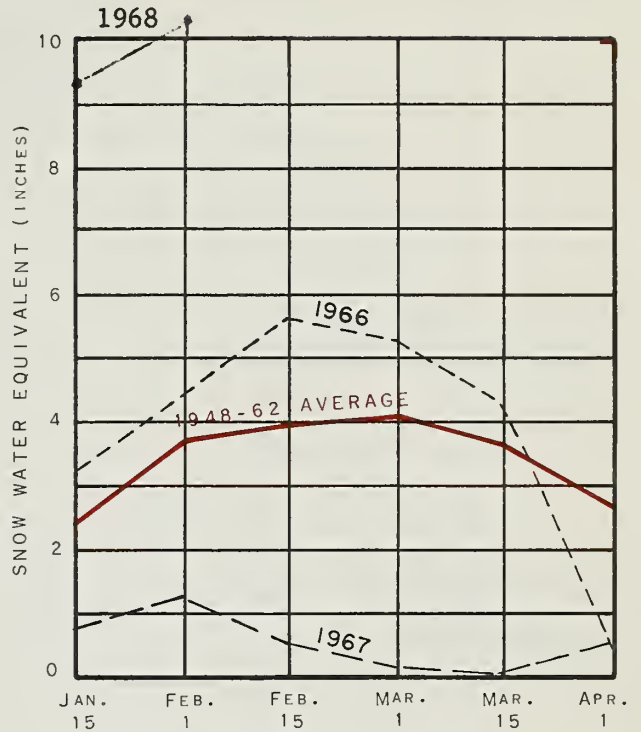
# 1968

## ARIZONA SNOW COVER

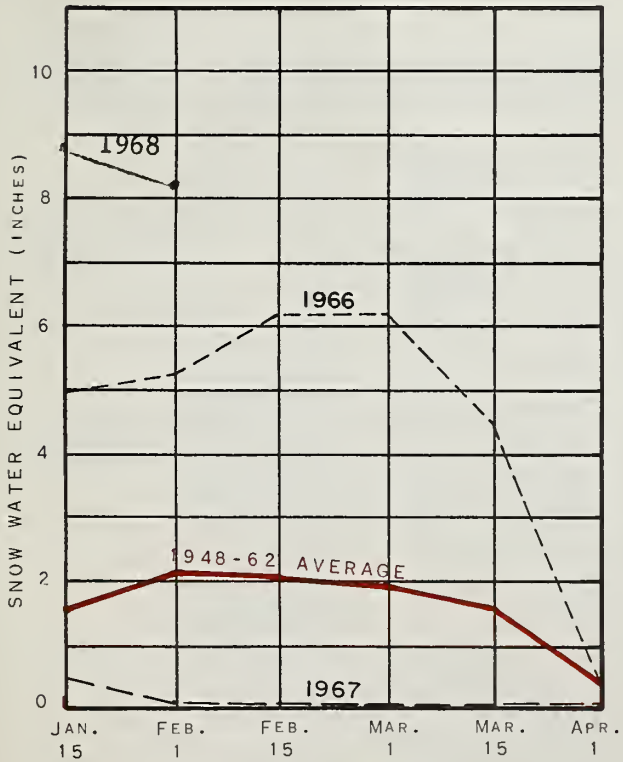
### BY WATERSHEDS



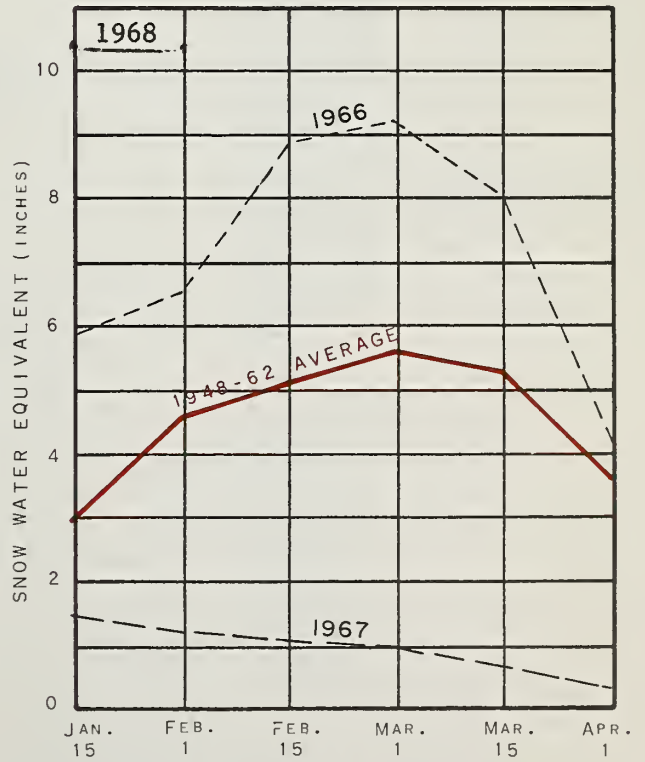
SALT RIVER



VERDE RIVER



GILA RIVER

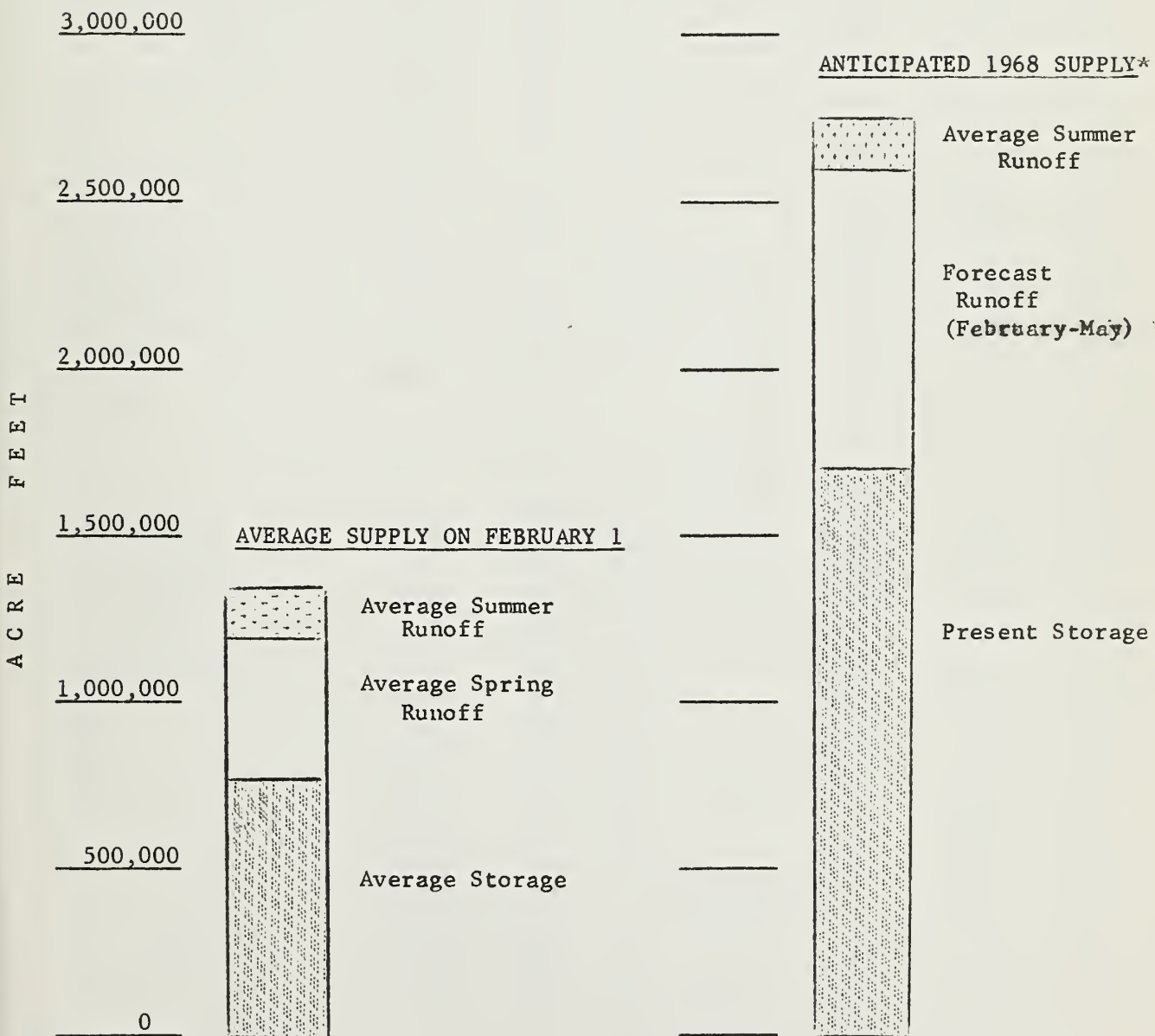


LITTLE COLORADO RIVER

BASED ON SELECTED SNOW SURVEY COURSES



WATER SUPPLY INVENTORY  
SALT RIVER VALLEY SYSTEM  
FEBRUARY 1, 1968



\* Based on Present Storage + Forecast Spring Runoff + Average Summer Runoff



**SNOW ABOUT FEBRUARY 1, 1968**

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
						LAST YEAR	AVERAGE <sup>a</sup>

**GILA RIVER**

Bear Wallow	10T1	8100	1/30	40	17.0	0.0	3.8
Beaver Head	9S6	8000	1/29	35	10.2	0.2	3.2
Coronado Trail	9S7	8000	1/31	30	10.6	0.0	2.6
Crazy Horse (A)	9T2-A	10200	1/22	60	18.0	---	---
Emory Pass #1 *	7T1	7800	1/30	6	1.9	0.0	---
Emory Pass #2 *	7T2	7800	1/30	16	6.1	0.0	---
Frisco Divide	8S1-M	8000	1/29	29	9.0	0.3	2.3
Hannagan Meadows *	9S11	9090	1/29	51	16.6	2.2	---
High Peak (A)	9T1-A	10500	1/22	60	18.0	---	---
Hummingbird (A)	8S9-A	10550	1/31	62	19.2	0.0	---
Ice King	8S6	8020	1/31	35	11.0	1.9	---
Inman	7S2	7800	2/1	5	4.1	0.0	0.5
McKnight Cabin *	7S3-A	9300	1/31	33	10.9	0.2	---
Mogollon	8S2	7000	1/31	22	6.2	0.0	1.5**
Nutrioso	9S4	8500	1/31	22	7.5	0.0	2.1
Redstone Trail	8S7	8600	1/31	39	14.0	2.0	---
Rose Canyon	10T2	7300	1/30	28	11.0	0.0	2.3
Silver Creek Divide	8S8	9000	1/31	47	17.3	3.5	---
State Line	9S8	8000	1/29	34	9.8	0.0	2.5
Whitewater (A)	8S10-A	10750	1/31	71	20.0	3.8	---

**SALT RIVER**

Baldy	9S1	9125	1/31	36	12.0	2.3	6.8**
Beaver Head	9S6	8000	1/29	35	10.2	0.2	3.2
Canyon Creek	10R7-M	7500	1/29	39	13.4	2.1	3.1**
Canyon Point	10R9	7600	1/29	41	13.6	2.7	---
Coronado Trail	9S7	8000	1/31	30	10.6	0.0	2.6
Forest Dale	10R6	6430	1/31	18	6.4	0.0	1.5
Ft. Apache	9R5	9160	1/31	36	11.4	2.7	7.2**
Hannagan Meadows	9S11	9090	1/29	51	16.6	2.2	---
Hawley Lake	9R10	8300	1/31	40	11.9	1.4	---
Heber	10R4	7600	1/29	40	13.5	1.8	3.2**
Maverick Fork	9S2	9050	1/31	43	14.0	2.4	7.9**
McNary	9R2-M	7200	1/31	28	10.4	0.0	2.4
Milk Ranch	9R1	7000	1/31	21	7.6	0.0	2.1
Mt. Ord (A)	9S12-A	11000	1/2	74	16.2	---	---
Nutrioso *	9S4	8500	1/31	22	7.5	0.0	2.1
Pacheta	9S5	7800	DISCONTINUED			0.0	3.8**
Smith Cienega (A)	9S14-A	9850	---	---	---	---	---
Wilson Lake	9R6	9000	1/31	42	12.9	4.2	---
Workman Creek	10S1	6900	1/31	45	18.0	1.7	4.4**

**BILL WILLIAMS RIVER**

Camp Wood *	12R1	5700	1/31	12	5.2	0.0	1.3
Copper Basin Divide	12R6	6720	1/31	27	10.8	0.3	---
Iron Springs	12R2	6200	2/1	14	6.0	0.1	1.7
Willow Ranch	13P1	5000	1/27	0	0.0	0.0	0.8

(a) 1948-62, 15 year period. (\*) Adjacent drainage. (\*\*) 1948-62 Adjusted Average. (A) Aerial observation: Water content estimated.

Delayed Report (Hannagan Meadows)	- 8 -	1/16	49	16.0	1.7	---
Delayed Report (Camp Wood)		1/17	20	8.1	0.0	0.9





# SNOW ABOUT FEBRUARY 1, 1968

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>(a)</sup>

## VERDE RIVER

Baker Butte	11R6	7300	1/29	53	19.6	2.0	---
Camp Wood	12R1	5700	1/31	12	5.2	0.0	1.3
Chalender	12P1-M	7100	1/30	26	8.1	2.3	3.2
Copper Basin Divide	12R6	6720	1/31	27	10.8	0.3	---
Fort Valley	11P2	7350	1/31	22	7.2	0.7	2.6
Gaddes Canyon	12R4	7600	1/31	41	14.5	1.1	4.7**
Happy Jack	11R5	7630	1/31	34	11.0	1.0	3.7**
Iron Springs *	12R2	6200	2/1	14	6.0	0.1	1.7
Mingus Mountain	12R3	7100	1/31	21	7.4	0.0	1.7
Mormon Lake *	11R4	7350	1/30	37	11.7	2.3	4.6
Mormon Mountain	11R3-M	7500	1/30	39	12.5	1.7	6.1**
Munds Park	11R1-M	6500	1/30	23	8.6	0.5	3.1**
Newman Park	11P5-M	6750	1/30	23	8.9	0.9	---
Snow Bowl #1	11P4	10260	1/30	36	10.7	8.0	---
Snow Bowl #2	11P6	11000	1/30	57	18.4	13.0	---
White Spar	12R5	6000	1/31	13	5.9	0.1	---
White Horse Lake Jct.	12P2	7150	1/30	31	10.1	2.3	---

## LOWER COLORADO RIVER

Bill Williams Summit	12P4	8950	1/30	44	14.2	7.5	---
Bill " Intermediate	12P5	8550	1/30	43	14.5	5.4	---
Bright Angel	12N1	8400	---	---	---	4.2	7.1**
Chalender *	12P1-M	7100	1/30	26	8.1	2.3	3.2
Fort Valley	11P2	7350	1/31	22	7.2	0.7	2.6
Grand Canyon	11P1	7500	1/31	18	5.2	1.1	2.5
Williams Ski Run	12P3	7720	1/30	41	13.2	4.3	---

## LITTLE COLORADO RIVER

Baldy	9S1	9125	1/31	36	12.0	2.3	6.8**
Canyon Creek	10R7-M	7500	1/29	39	13.4	2.1	3.1**
Canyon Point	10R9	7600	1/29	41	13.6	2.7	---
Forest Dale	10R6	6430	1/31	18	6.4	0.0	1.5
Ft. Apache	9R5	9160	1/31	36	11.4	2.7	7.2**
Fort Valley	11P2	7350	1/31	22	7.2	0.7	2.6
Happy Jack *	11R5	7630	1/31	34	11.0	1.0	3.7**
Heber	10R4	7600	1/29	40	13.5	1.8	3.2**
Inner Basin #1	11P9	10100	1/31	56	18.9	---	---
Inner Basin #2	11P8	9750	1/31	45	14.8	---	---
Inner Basin #3	11P7	10250	1/31	49	19.4	---	---
McNary	9R2-M	7200	1/31	28	10.4	0.0	2.4
Mormon Lake	11R4	7350	1/30	37	11.7	2.3	4.6
Mormon Mountain	11R3-M	7500	1/30	39	12.5	1.7	6.1**
Nutriosio	9S4	8500	1/31	22	7.5	0.0	2.1
Snow Bowl #1	11P4	10260	1/30	36	10.7	8.0	---
Snow Bowl #2	11P6	11000	1/30	57	18.4	13.0	---
Wilson Lake *	9R6	9000	1/31	42	12.9	4.2	---

(a) 1948-62, 15 year period. (\*) Adjacent drainage. (\*\*) 1948-62 Adjusted Average. (A) Aerial observation: Water content estimated.



# PRECIPITATION

## STORAGE GAGE DATA - ABOUT FEBRUARY 1, 1968

Drainage Basin and Storage Gage	Elev.	Current Data		1948-62	From Approx. 11/1 to Date		
		Date of Reading	January Precip.	Av. Jan. Precip.	This Year	1948-62 Average	% of Average

### GILA RIVER

Silver Creek Divide	9000	1/31	1.15	---	19.62	---	---
Hannagan Meadows	9030	1/30	1.89	3.30*	13.70	8.51*	161%

### SALT RIVER

Canyon Point	7600	1/29	2.92	---	17.62	---	---
Hannagan Meadows	9030	1/30	1.89	3.30*	13.70	8.51*	161%
Little Wildcat	7600	1/29	4.27	4.06*	17.24	8.22*	210%
(Heber Snow Course)							
Maverick Fork	9050	1/31	1.33	2.83*	13.44	6.87*	196%
Workman Creek **	6970	1/31	3.30	4.62	18.87	10.70	176%
Wilson Lake	9100	1/31	1.30	---	14.40	---	---

### VERDE RIVER

Baker Butte	7300	1/29	3.66	---	19.41	---	---
Copper Basin Divide	6720	1/31	2.27	---	14.01	---	---
Fort Valley **	7350	1/31	1.11	2.45	9.61	5.30	181%
Happy Jack **	7480	1/31	4.44	3.41*	12.78	7.10*	180%
Mingus Mountain	7660	1/31	1.45	2.99	15.95	5.89	271%
Mormon Mountain	7500	1/30	3.21	---	14.85	---	---

### LITTLE COLORADO

Inner Basin #1	9830	1/31	2.46	---	11.32	---	---
Inner Basin #2	10050	1/31	2.60	---	11.25	---	---
Sheep Crossing	9125	1/31	.85	2.61*	11.86	6.23*	190%
(Baldy Snow Course)							
Little Wildcat	7600	1/29	4.27	4.06*	17.24	8.22*	210%
(Heber Snow Course)							

\* 1948-62 Adjusted Average

\*\* Data supplied by U.S. Forest Service





ARIZONA SOIL MOISTURE - ABOUT FEBRUARY 1, 1968

Drainage Basin and Station	1/ Station Number	Elev.	Soil Profile in Inches		Date	Soil Moisture Content in Inches			
			Depth	Cap.		1968	Past Record		Avg.
							1967	1966	
<u>GILA RIVER</u>									
Frisco Divide	8S1-M	8000	48	13.3	1/31	6.9	8.5	9.9	10.4
<u>SALT RIVER</u>									
Black River Divide	9S10-*	9100	48	16.8	1/31	17.2	16.8	18.1	14.8
Canyon Creek	10R7-M	7500	48	18.3	1/29	16.3	18.7	18.2	14.1
Corduroy Creek	10R8-*	6000	36	13.5	1/29	14.5	8.0	12.5	7.6
McNary	9R2-M	7200	48	16.3	1/31	13.7	14.7	17.9	14.2
<u>VERDE RIVER</u>									
Mormon Mountain	11R3-M	7500	48	16.1	1/30	13.7	17.4	17.7	14.1
Newman Park	11P5-M	6750	48	17.7	1/30	19.6	18.4	19.5	13.6

1/ \* - Soil Moisture Station Only  
M - Snow Course and Soil Moisture Station



SNOW COURSE

Baker Butte -----  
Baldy -----  
Bear Wallow -----  
Beaver Head -----  
Bill Williams Intermediate -----  
Bill Williams Summit -----  
Bright Angel -----  
Camp Wood -----  
Canyon Creek -----  
Canyon Point -----  
Chalender -----  
Copper Basin Divide -----  
Coronado Trail -----  
Crazy Horse -----  
Emory Pass -----  
Forest Dale -----  
Ft. Apache -----  
Fort Valley -----  
Frisco Divide -----  
Gaddes Canyon -----  
Grand Canyon -----  
Hannagan Meadows -----  
Happy Jack -----  
Hawley Lake -----  
Heber -----  
High Peak -----  
Hummingbird -----  
Ice King -----  
Inman -----  
Inner Basin #1,#2, #3 -----  
Iron Springs -----  
Maverick Fork -----  
McKnight Cabin -----  
McNary -----  
Milk Ranch -----  
Mingus Mountain -----  
Mogollon -----  
Mormon Lake -----  
Mormon Mountain -----  
Mt. Ord -----  
Munds Park -----  
Newman Park -----  
Nutrioso -----  
Redstone Trail -----  
Rose Canyon -----  
Silver Creek Divide -----  
Smith Cienega -----  
Snow Bowl #1 -----  
Snow Bowl #2 -----  
State Line -----  
White Horse Lake Junction -----  
White Spar -----  
Whitewater -----  
Williams Ski Run -----  
Willow Ranch -----  
Wilson Lake -----  
Workman Creek -----

SNOW SURVEYOR

SCS and SRVWUA  
SCS - Bill Cole  
Forest Service - Douglas Smith  
N. A. Josh  
Forest Service - Chuck Sheirer  
Forest Service - Chuck Sheirer  
National Park Service - Bob Peterson  
Lyn Pehl  
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SCS and SRVWUA  
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SCS - Bill Gray  
Forest Service - John Maeder  
Forest Service - Art Maynard  
SCS - Bob Abercrombie  
Bureau of Indian Affairs - Raymond Endfield  
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SCS  
SCS  
Air Transit - Show Low  
SCS  
SCS  
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Forest Service - Douglas Smith  
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Forest Service - Angus Porter  
Forest Service - Joe Clayton  
Forest Service - Chuck Sheirer  
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# The Following Organizations Cooperate in the Arizona Snow Survey Work

## FEDERAL

Department of Agriculture

Soil Conservation Service

Forest Service

Apache Forest

Coconino Forest

Coronado Forest

Gila Forest

Koibob Forest

Prescott Forest

Rocky Mountain Forest and Range Experiment Station

Tonto Forest

Department of Commerce

Weather Bureau

Arizona Section

Department of Interior

Bureau of Reclamation

Region III

Geological Survey

Arizona District

Bureau of Indian Affairs

Fort Apache Reservation

San Carlos Irrigation Project

National Park Service

Grand Canyon National Park

Gila Water Commissioner

Safford, Arizona

## STATE

University of Arizona

Arizona Agricultural Experiment Station

Water Resource Research Center

## IRRIGATION PROJECTS

Salt River Valley Water Users' Association

Phoenix, Arizona

San Carlos Irrigation and Drainage District

Coalidge, Arizona

## PRIVATE

Southwest Forest Industries, Inc.

McNary, Arizona

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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